Yeast Topoisomerase II Security Parameters Human 8-1-pyrroline-5-carboxylate synthetase E. coli r. glutamyl phosphate reductase E. coli glutamate-5-kinase E. coll histidine biosynthesis HIS10 E. coli histidine biosynthesis HIS2 E. coli acetate Co-A transferase α E. coll acetate Co-A transferase B Yeast histidine biosynthesis HIS2 Human succinyl CoA-transferase B. subtilis DNA pol III α E. coli DNA pol III α E. coli DNA pol III α E. coli gyrase B E. coli gyrase A

Y. (1)

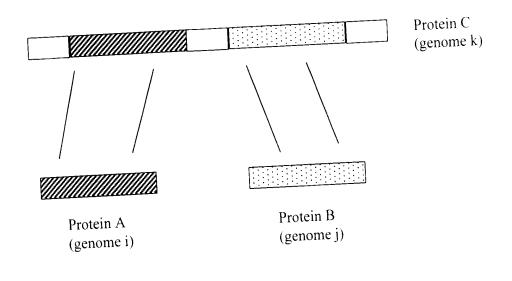


FIG. 1B

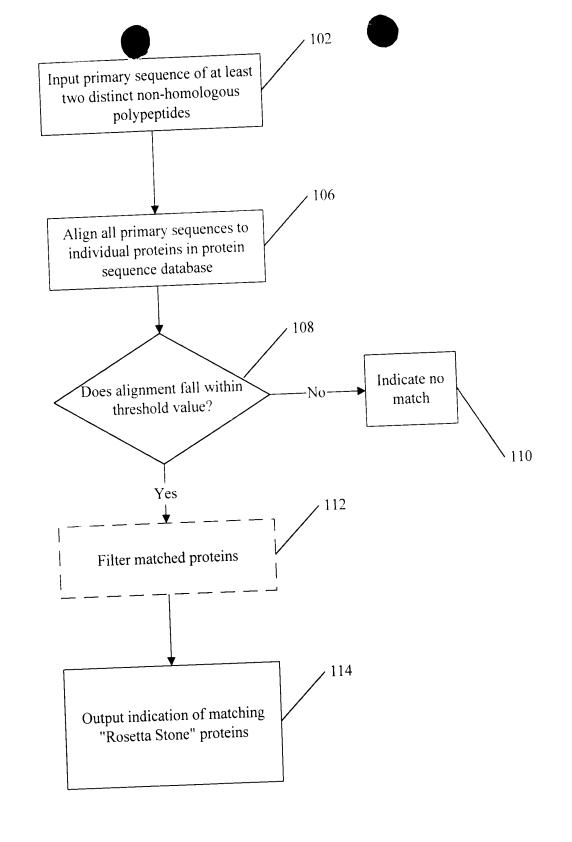


FIG. 2A

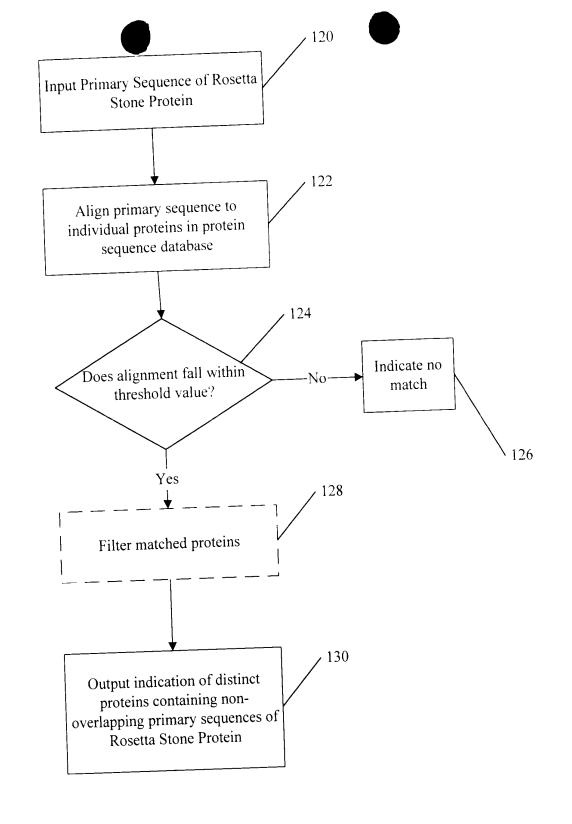
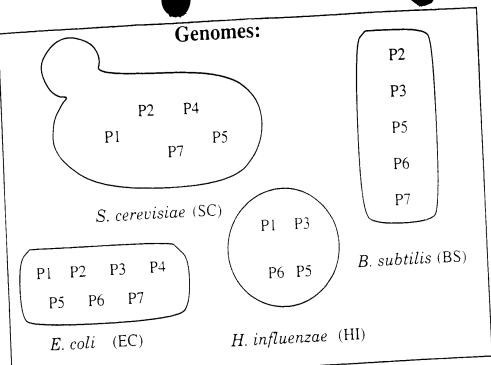


FIG. 2B



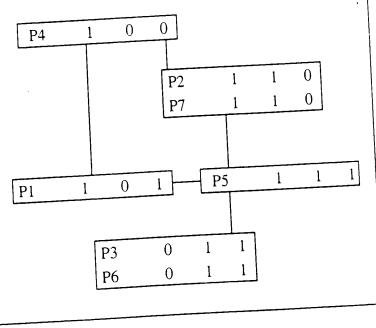




Genomic profiles:

BS HI SCEC 0 1 Pl 0 P2 0 P3 0 0 P4 1 1 P5 1 0 1 P6 0 1 1 P7

Profile Clusters:





Conclusion: P2 and P7 are functionally linked.
P3 and P6 are functionally linked

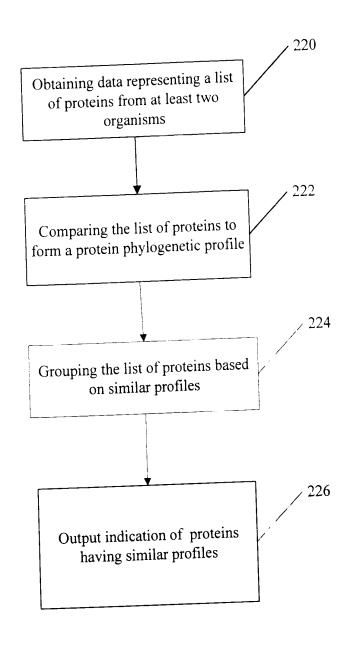
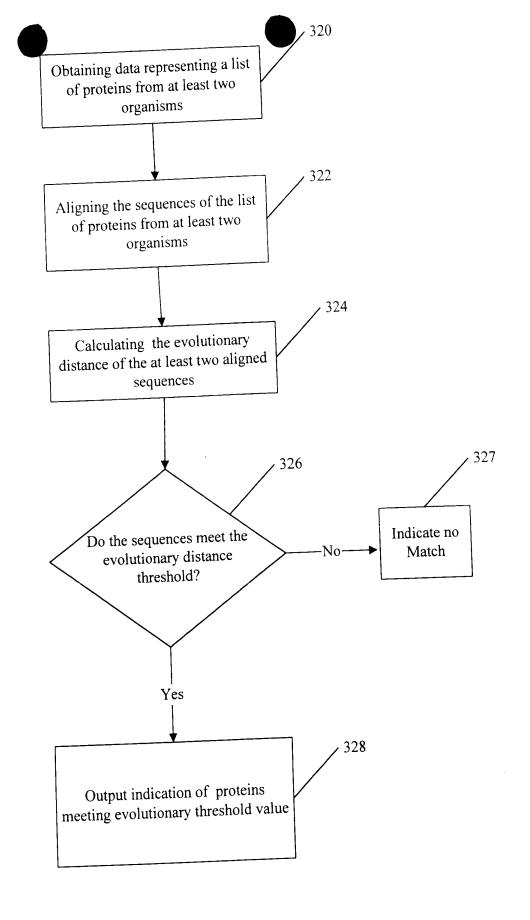
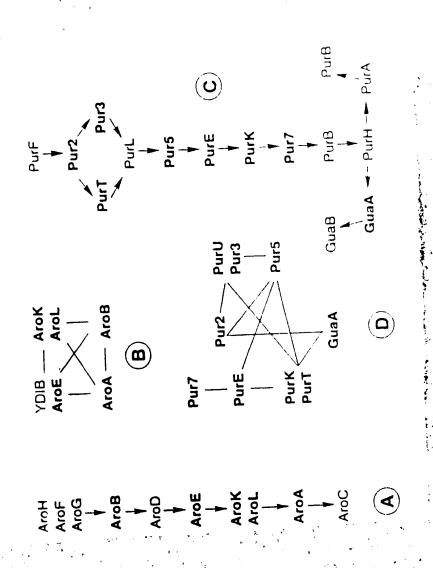


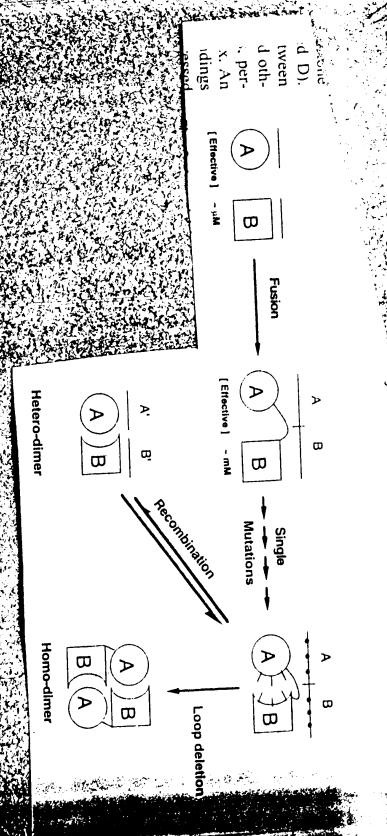
FIG. #A

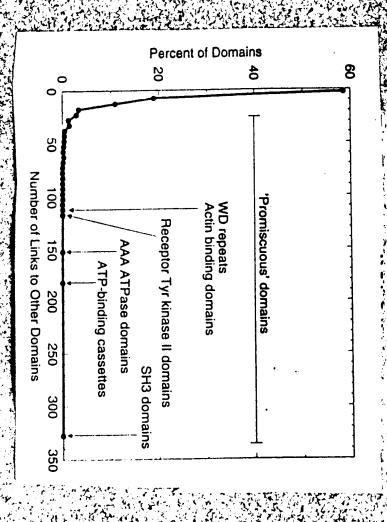


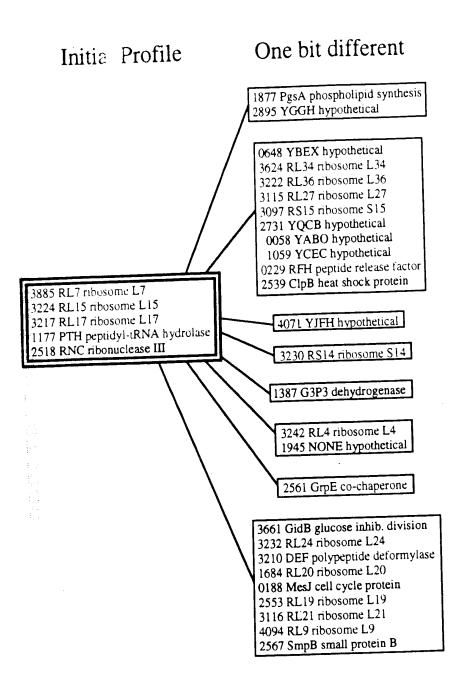


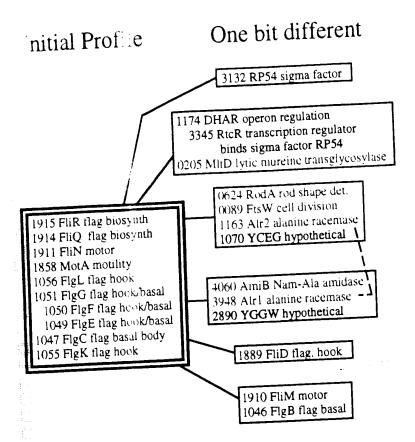
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Enzymes stacked together (for example, AroK and AroL) are









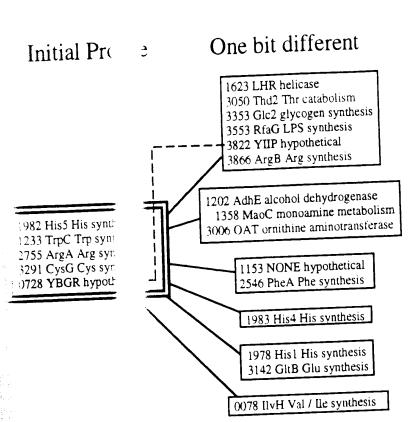
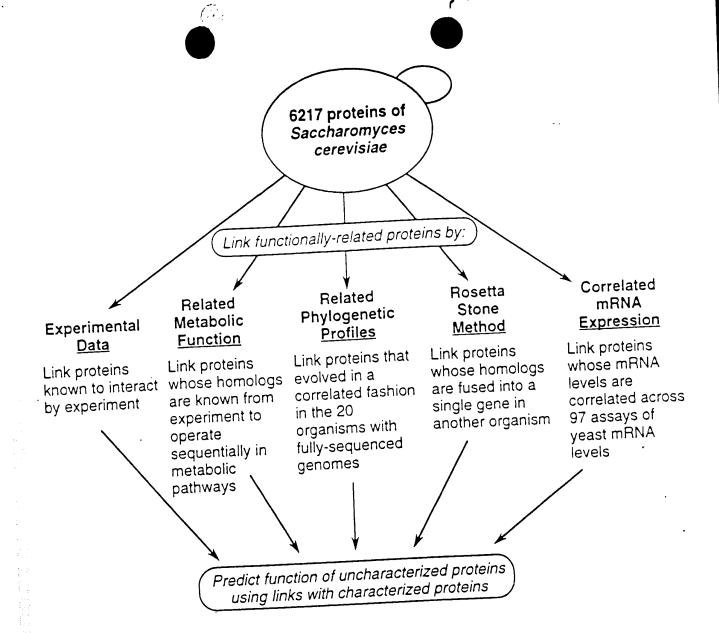
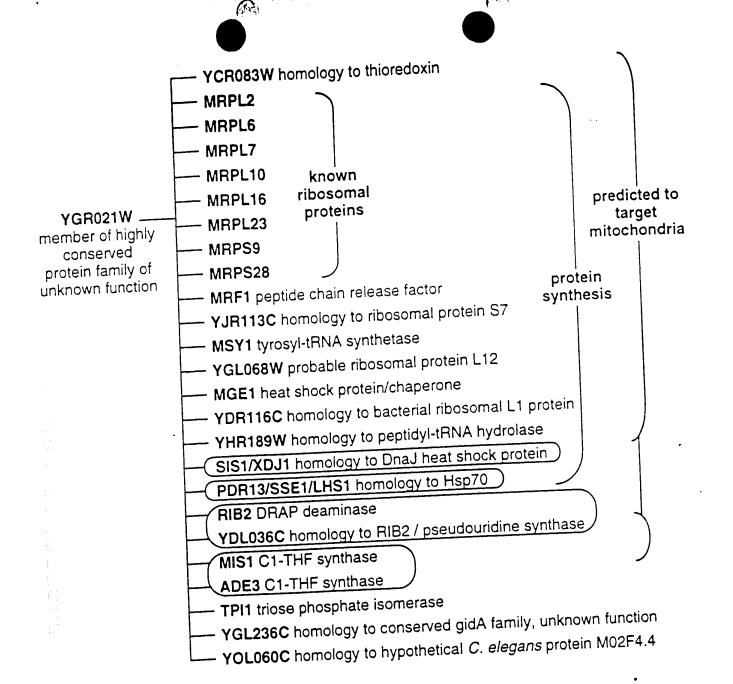
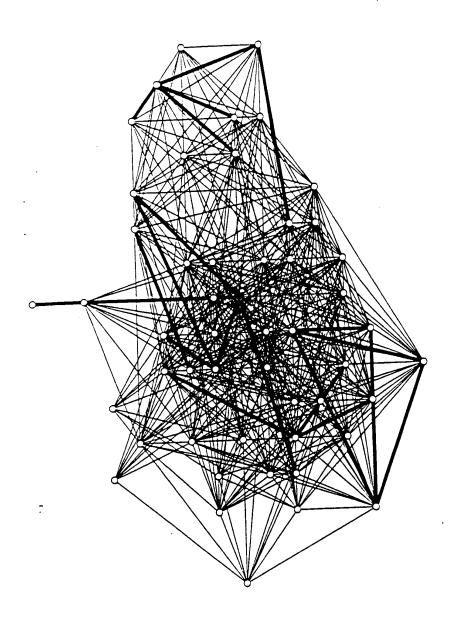


FIG 32





tRNA & mRNA 4 subunits of RNA polymerase II, and III synthesis DIM1 rRNA dimethyltransferase ribosome mRNA 8 ATP-dependent RNA helicases biogenesis splicing Sup35 snRNP-specific elongation factor 2 GTP-binding peptide chain 8 amino acid-tRNA synthetases protein release factor synthesis 6 ribosomal proteins and prion and Sup45 peptide chain release factor folding 3 translation initiation factors 6 subunits of CCT chaperonin MAP1 Met-amino peptidase protein 5 protein sorting and targeting proteins targeting 2 DNA replication factor C subunits Glutathione reductase QRI7 and YKR038C peptidases YOR11W ATP-dependent permease TOP3 DNA topoisomerase III



HLB Fig **

